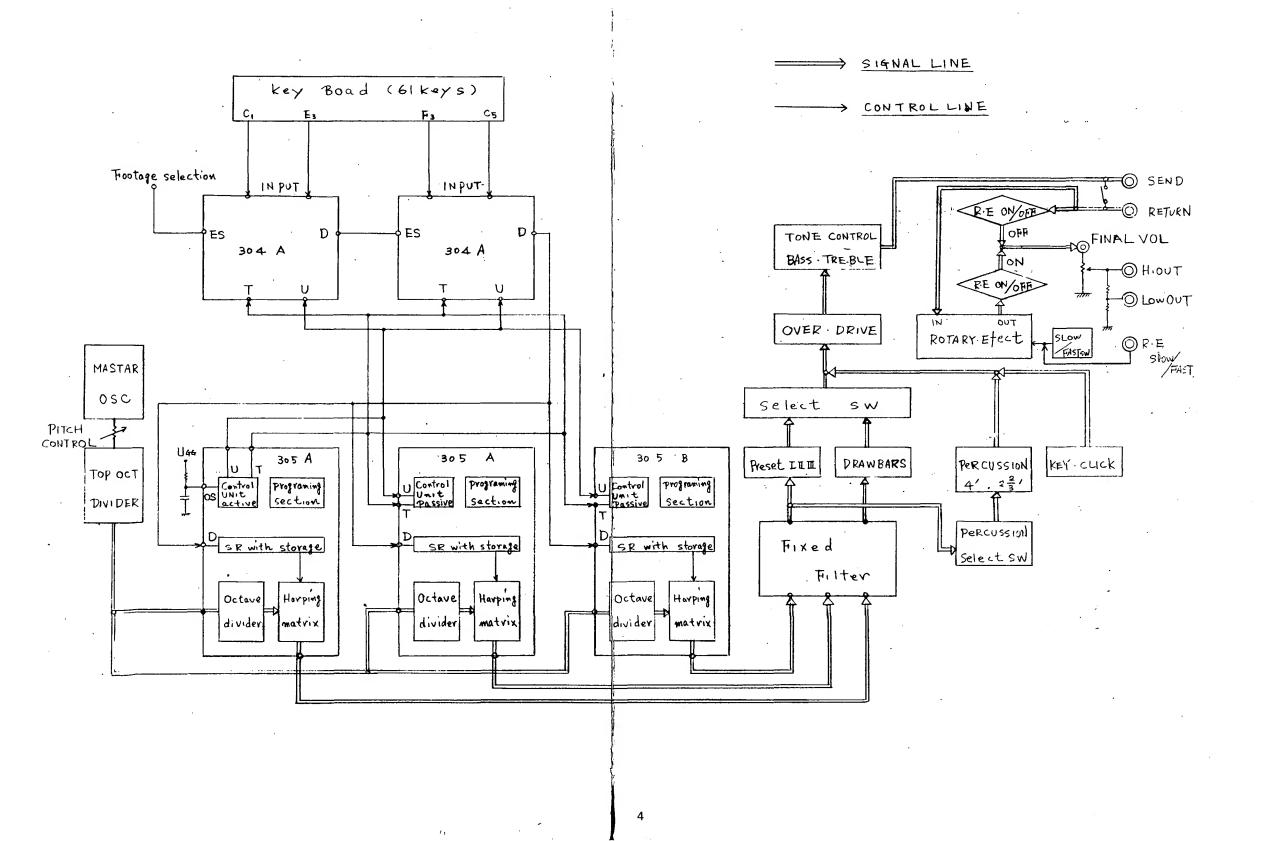
KORG Portable Organ Tragbare Orgel Orgue Portatif

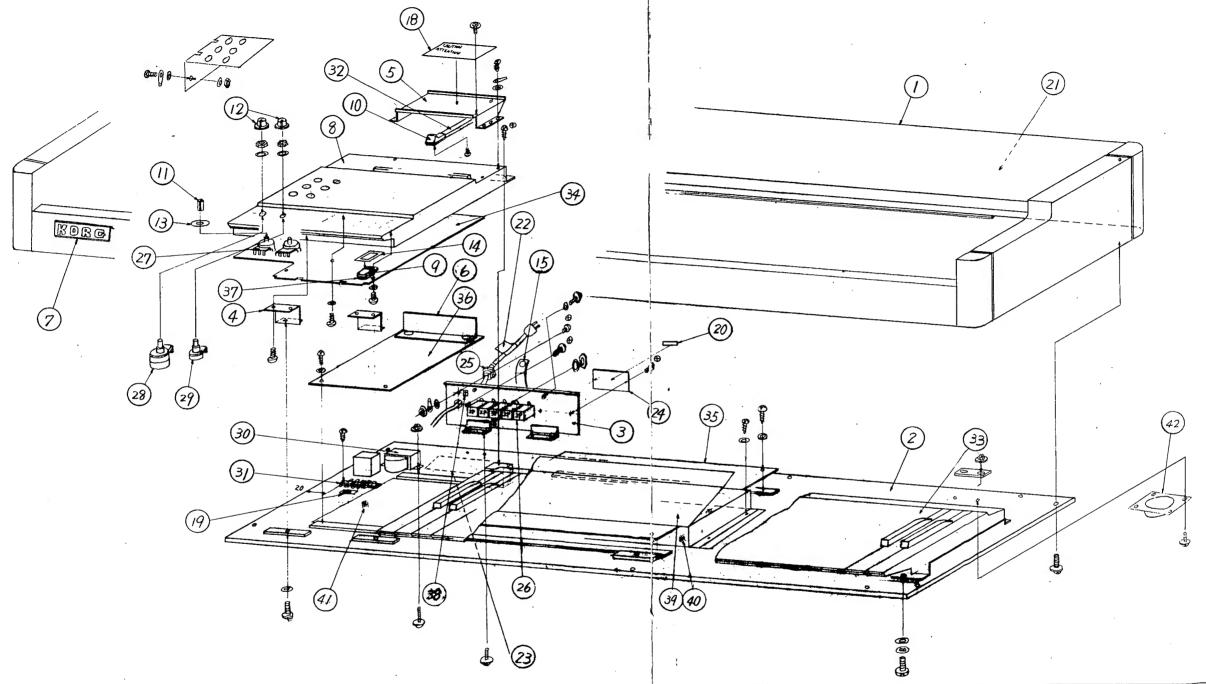


Sound Revolution KORG

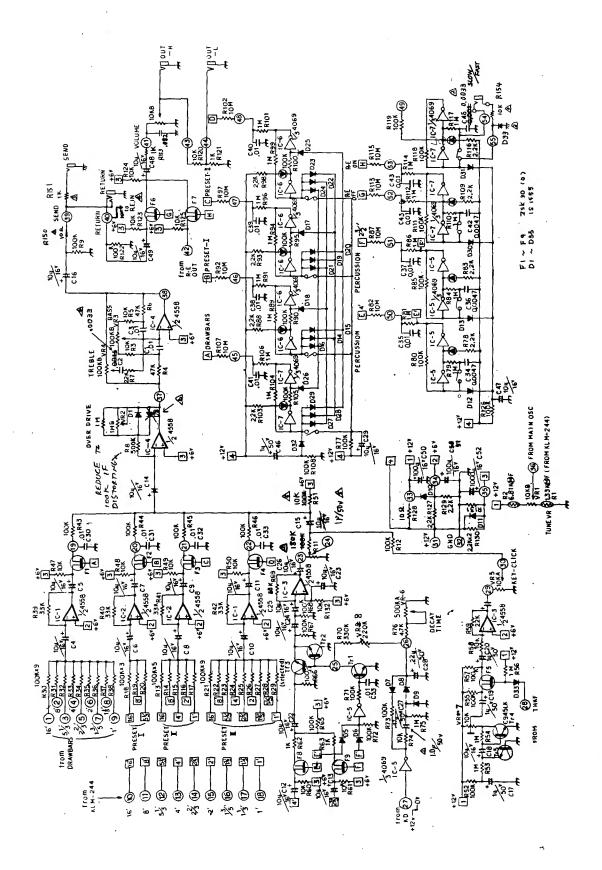
3. BLOCK DIAGRAM

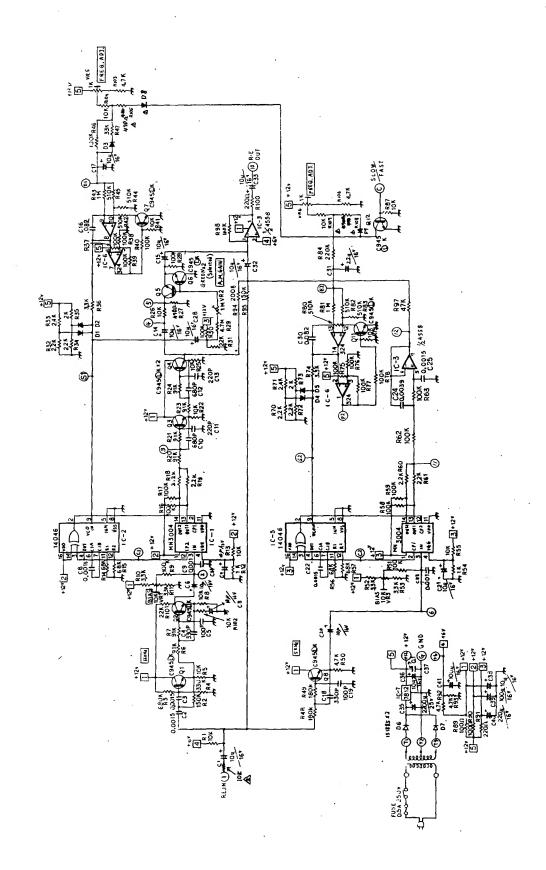


2. STRUCTURAL DIAGRAM

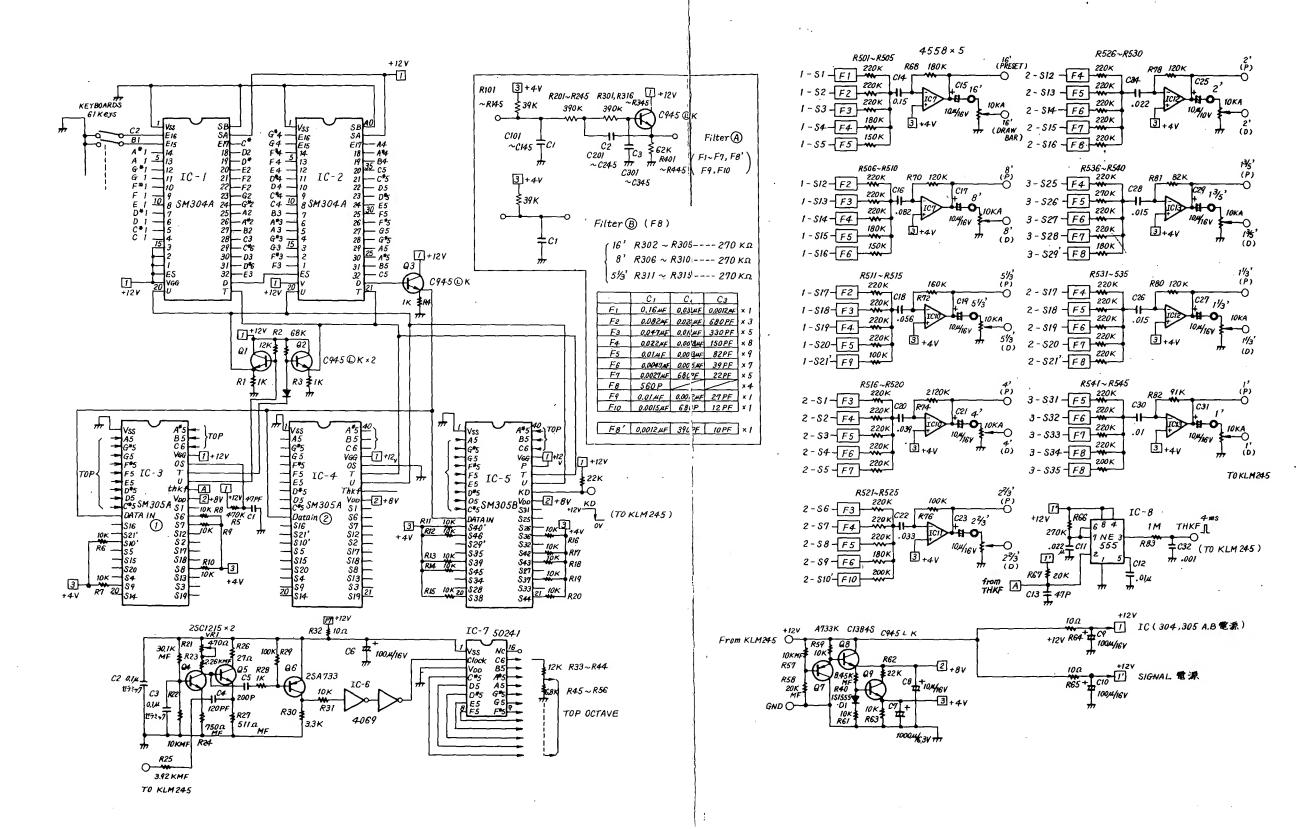


Item	Part Name	Remarks	Item	Part Name	Remarks	Item	Part Name	Remarks	Item	Part Name	Remarks
1.	Cabinet		11.	PS knob (small)		23.	Service caution seal		33.	Keyboard	
2.	Bottom		12.	Rotary kncb		24.	Model number plate		34.	Control circuit board	
3.	Rear panel		13.	Lever SW. mask		25.	Strain release bushing		35.	Main circuit board	
4.	Control panel mounting		14.	Selector SV mask		26.	Phone jack		36.	R.E. Circuit board	
5.	Draw bar holder		15.	Cord stopper		27.	Rotary variable resistors		37.	Selector SW	
6.	Radiation board		18.	Fuse caution seal		28.	Rotary variable resistors		38.	Earth (ground) seal	
7.	KORG Mark (Small)		19.	Fuse seal		29.	Rotary variable resistors		39.	Sealed cover	
8.	Control panel		20.	Serial number seal		30.	Power transformer		40.	Aluminum film	
9.	Selector SW knob		21.	KORG Mark seal		31.	Lug board		41.	Aluminum film	
10.	Draw bar knob		22.	Wiring causion (large)		32.	Draw bar		42.	Metal fitting of stand	

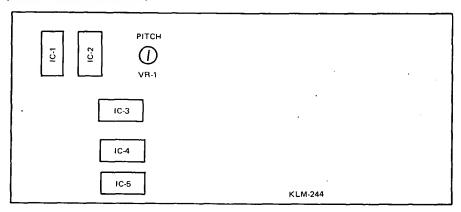


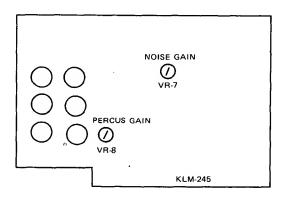


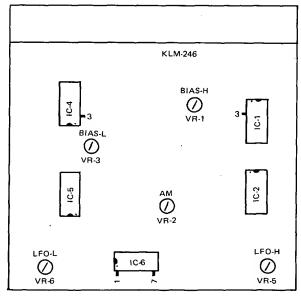
4. CIRCUIT DIAGRAM KLM-244



Trimmer positions (reference chart)







8. PARTS LIST (Refer to structural diagram for parts list.)

PARTS NAME	SPECIFICATIO	ons c	ΥΤΎ	PARTS NAME	SPECIFICATIONS	Ω'Τ	TY
				CERAMIC	CAPACITORS		
CARBON RE	SISTORS (Not Listed	3)	- 1		561 (560 pF) .	4	4
SOLID RESIS	STORS			ı	ECK-FIE104ZFZ (0.1 µF)	3	3
30EID RESIG			8	FLECTRO	DLYTIC CAPACITORS		7
				1	0.22µ / 50V	1	1
	M RESISTORS	·	.	l .	0.47		
14W	•		1		10 / 16	24	4
	6.81		1		100	5	5
	511	ļ	1	c.	1000 / 6.3V	1	1
	750		1	Ì	220 / 16	1	1
	3.32		1	İ	1000 / 6.3	1	1
	3.92	1			100 / 16		2
	8.45		1	ĺ	2200 / 25		1
	10		2)	22 / 16	1	1
	20		1	i	1 /50	1	7
	30.1		1		10 / 16	22	
	2.32		0				
	2.26		1	TRANSIS			
MYLAR CAF	PACITORS			1	2SC945 LK	55	,5
50			3		2SC945	1	4
1	0.0012		3	}	2SC1215T	2	2
	0.0015		13		2SC644R	1	1
	0.0022		,	1	2SC13849	'	1
	0.0022	{	5		2SA733AK		2
	0.0027	•	11	FET	V		
ĺ	0.0039		1	LEI	201/20		9
	0.0039		10		2SK30		-
-	0.0047		8	DIODES		- 1	
	0.000		27	1	1S1555	40	10
	0.012		5		1S1885) :	2
	0.012		13	IC			
			2	'C	SM-304A	· .	2
	0.033		5	1	SM-305A	1	2
1	0.047		5		SM-305B	1	1
	0.068	ì	-	11		3.1	1
	0.082		7	iÌ	NE-555		1
	0.16	1	1		S-50241		4
	0.056	1	1		MC-14069		
	0,15		1		4458		10
	0,015		2		MC-14046	1	2
	0.039		1		MN-3004	l l	2
STYROL CA	PACITORS			[[μPC 324		1
	pF G (5%)		1		14312 (7812)		1
12			1	SEMI-FI)	KED RESISTORS		
					470ΩΒ Η1051Α		1
1	APACITORS	r\ .	_	[[150	I	3
EC	CK-D1H100 Dc (10 p		1]	10KB		3
	120 K ₂ (12 p		1	1	220	I .	1
	220 (22'p		5		1MB	ſ	1
	270 (27 p		1		100KB		
1	390 (39 p		7	[]	1 KB	Ì	2
	820 (82 p	1	9				_
}	101 (100	•	3	KEYBOA		1	
1	151 (150		8	IL_	ESK307V (61 key)		1
J	221 (220		3	FUSE			
	231 (330		7		250V 0.5A		1
1	391 (390		1				<u>.</u>
	681 (680	pF)	11	LUG BO			
1	47 (47 r	ıF)	1	П	L-1205-6P	1	1

7. ADJUSTMENT PROCEDURE

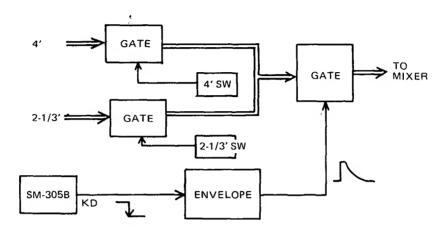
Caution: Very precise adjustments have been made at the factory, so be careful not to change any setting otehr than that which is out of order.

Circuit Board No.	SECTION	SETTINGS	ADJUSTMENT	ADJUST Vr. No.	Oscilloscope
KLM-244	PITCH	TUNE - CENTER SELECTOR - DRAW- BARS DRAWBARS - 8' SIG OUT - WT10A WT-10A-S/M - METER	Play A and adjust to obtain a 0 cent reading.	VR-1	
	NOISE GAIN	SIGOUT(Hi) - OSCILLO.S SELECTOR - DRAW- BARS DRAWBARS - 0 KEYCLICK - MAX VOL - MAX	Adjust to get 0.5V ~0.7V key click sound when a key is played.	VR-7	0.5V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7
KLM-245	PERCUS GAIN	SIG OUT(Hi) - OSCILLO.S PERCUS VOL - MAX PERCUS DE- CAY - MAX PERCUSSION - 4' SELECTOR - DRAW- BARS DRAWBARS - 4'	Adjust so there is a 7:1~5:1 ratio between percussion 4' and drawbars 4'.	VR-8	7:1 5:1
	LFO (LOW)	ROTARY EFFE – FAST IC6-1 – f.counter	Adjust to obtain 145msec reading.	VR-6	
	LFO (HIGH)	IC6-7 — f.counter	Adjust to obtain 130msec reading.	VR-5	
KLM-246	BIAS (LOW)	IC4-3-Digital	Adjust to obtain 6.00V reading.	VR-3	
	BIAS (HIGH)	IC1-3-Digital	Adjust to obtain 6.00V reading.	VR-1	
	АМ-Н		*	VR-2	

^{*} The AM-H adjustment controls the high range volume fluctuation when the rotating speaker effect is turned on. Listen to the sound to confirm proper adjustment.

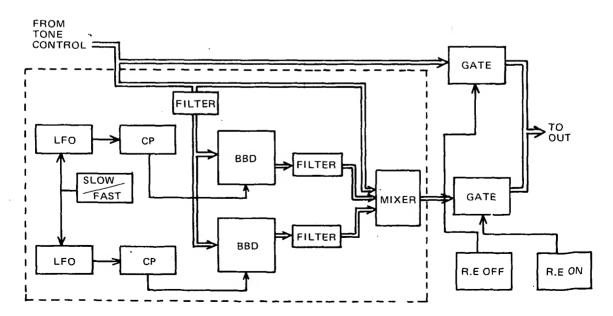
4. Percussion circuit

The percussion circuit uses 4' and 2-2/3' signals. The envelope signal which controls the effect is produced with the SM-305B KD (key-down) single trigger.



5. Rotary Effect circuit

Two BBD circuits are used to produce the rotary effect. The BBDs are IC-MN3004. Refer to the diagram



6. MAIN CIRCUIT EXPLANATIONS

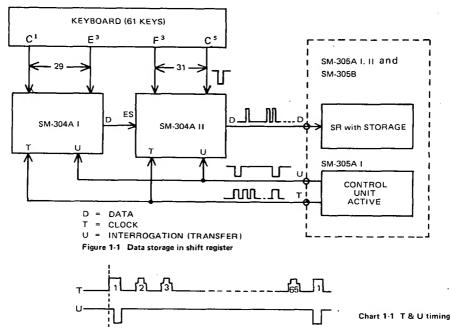
Because the tone circuit is of the programming type, it can be used in many different ways. However, here is only explained how the circuit is used in the CX-3.

1. Tone circuit

IC-SM304A is a data processing IC designed for electronic organ applications.

Data from the 61 keys on the keyboard is converted from a parallel control signal into a series

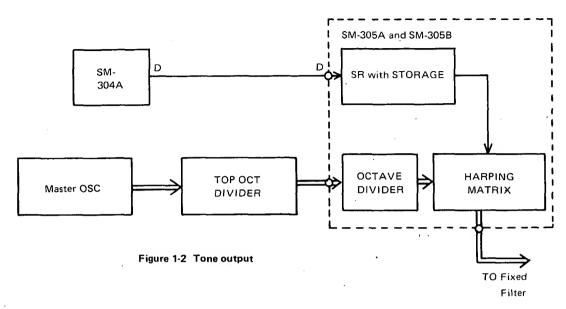
control signal. After passing through the P/S (parallel-to-series) converter, the data is stored as D in the SR with storage of SM-305A and SM-305B.



U = Simply speaking, the transfer pulse identifies the beginning of the series.

T = The clock pulse counts from 1 to 65 bits. 4 of those bits are for footage group programming and 61 bits are for keyboard programming. Refer to chart 1-2.

•	P	rogram	ming b	its	os	Summing-out puts for programming										Footage
SM-	PB1	PB2	РВЗ	PB4		S1	0'	S9		s	6	S7		S8		group
305A	Н	н	н	н	Rol			1		VI	DD	1				3
	н	н	н	н	L		2									1
	Programming bits				P			Sum	ming-o	utputs	for pro	gramm	ning			Footage
SM- 305B	РВ1	PB2	РВ3	PB4	•	S40'	S46	S39	S45	S38	S36	S42	S43	S37	S44	group
	Н	н	H.	н	Н		<u>VDD</u> 2									4
	ES	E1	E2	E3				-								L
	pr	esignati ogrami ts. for		ı						1 2 D.						



IC SM-305 includes shift register, octave divider, and harping matrix functions.

The data that had been transferred to the shift register is now transferred to the harping matrix.

There the 12-tone octave divider and sound is produced in accordance with the data. Refer to figure 1-2.

Harping Matrix

SM-305A produces 3 footage groups.

Footage Group-1	4'	2-2/3.	2′	1-1/3′
Footage Group-2	8′	5-1/3′	4'	2-2/3'
Footage Group-3	16′	10-2/3′	8′	5-1/3′

SM-305B produces 2 footage groups.

Footage Group-4	1-3/5′	1′	2/3′	1/2′
Footage Group-5	4/5′	1/3′	1/4′	1/8′

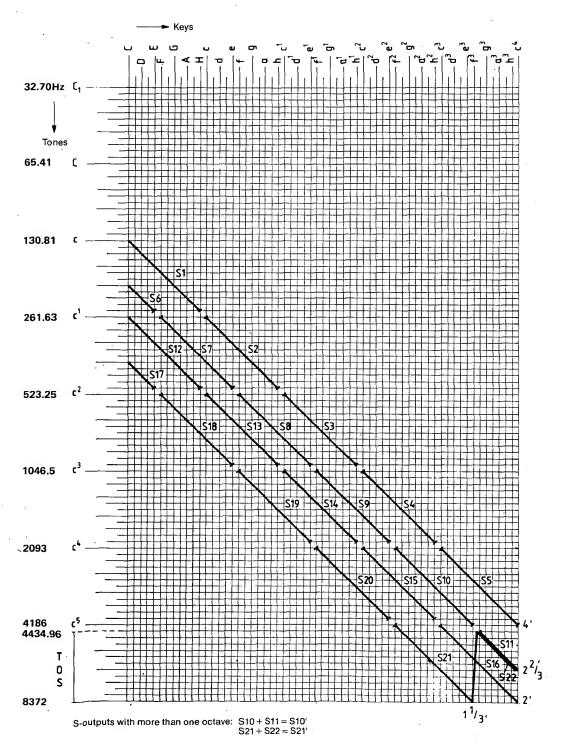
Footage groups used in the CX-3 are as listed below.

SM-3054-I	Footage group-3	(But without 10-2/3')
SM-3054-11	Footage group-1	
SM-3058	Footage group-4	(But without 2/3' or 1/2')

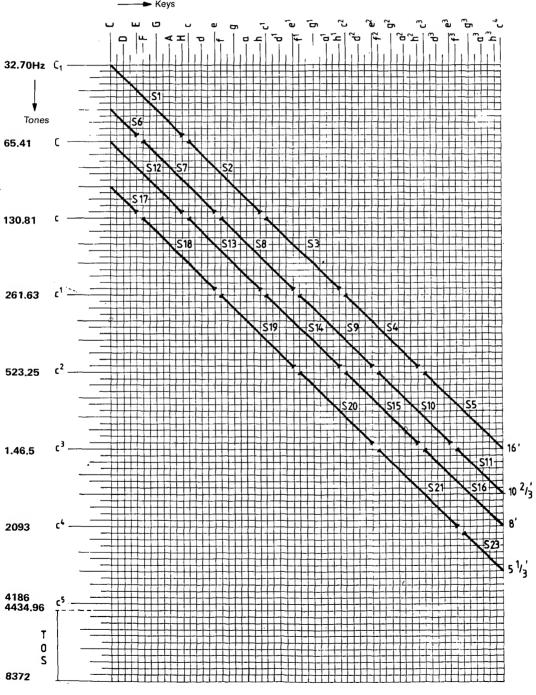
(Refer to the Harping matrix – footage group chart)

In other words, the top octave divider produces 12 frequencies — C# (4434.96Hz) D, D#...B, C (8372Hz) etc. For example, to get 4' C, which is 4 octaves lower, the 4186Hz is divided by 32 to obtain 130.81Hz (C). This note centered around VDD/2 is sent to tone out and from there to each of the fixed filters.

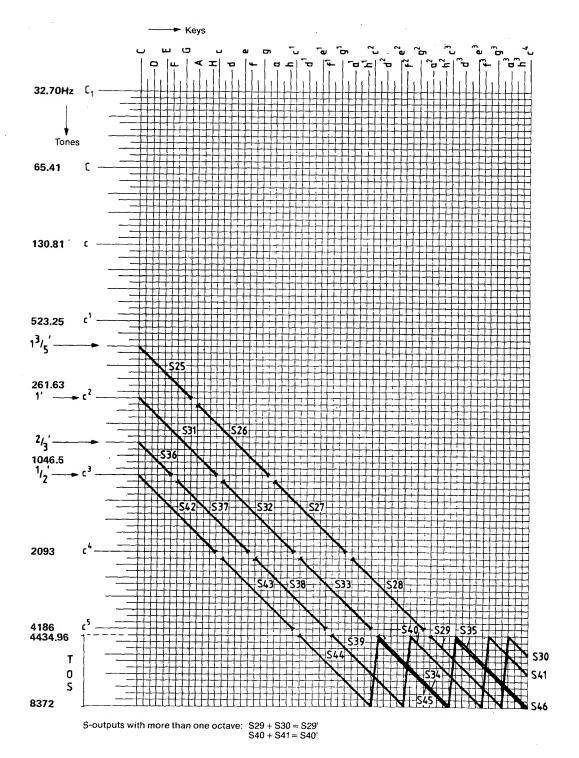
SM-305A-II Harping matrix for footage group 1



SA-305A-I Harping matrix for footage group 3



S-outputs with more than one octave: S10 + S11 = S10'S21 + S23 = S21'



2. Filter circuitry

There are fixed filters for each tone; separate outputs are provided for presets and drawbars; the selector buttons determine which gate is operated to pass the signal on to the mixer.

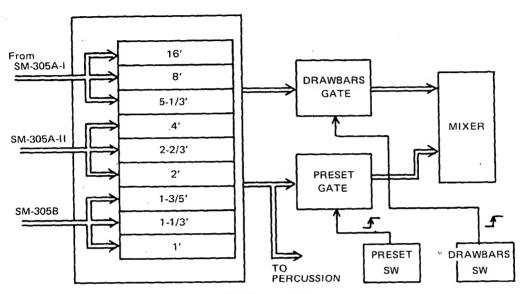
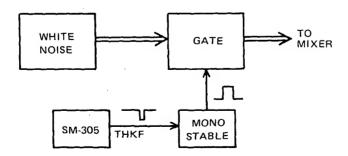


Figure 2-1 Filters

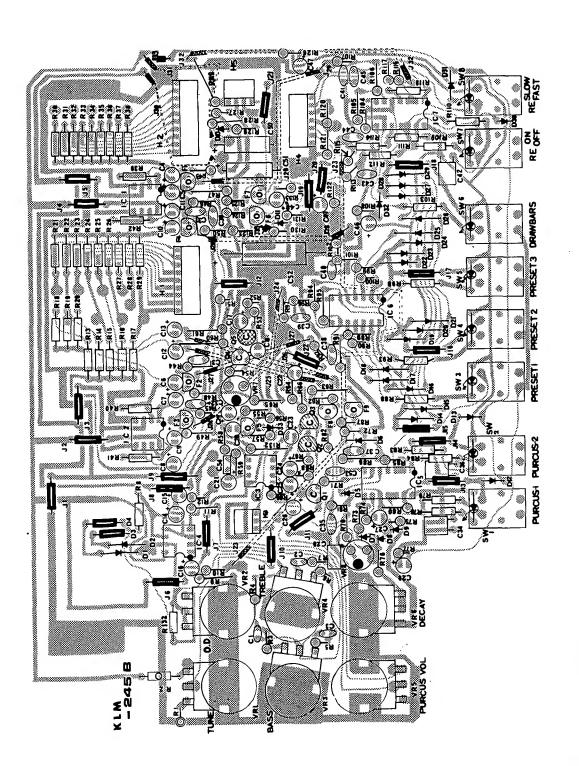
3. Key-Click circuit

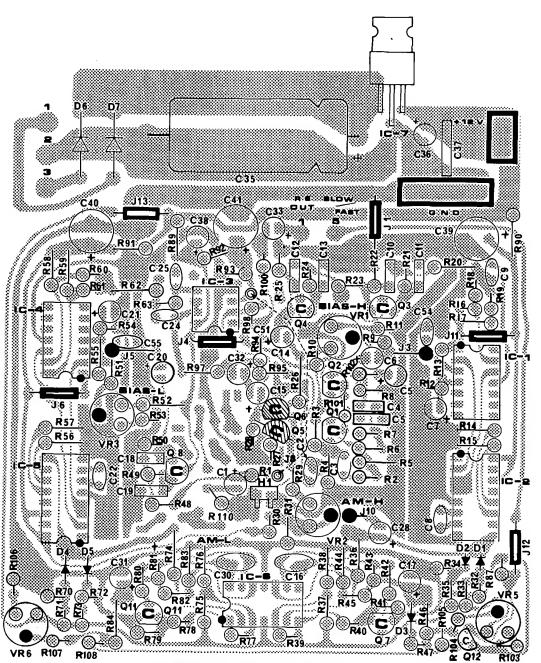
White noise is used to produce the key-click effect. The SM-305A THKF (multiple trigger) controls the effect.



PARTS NAME		SPECIFICATIONS	Q'TY
CONNE	CTORS	· · · · · · · · · · · · · · · · · · ·	
	CX3-	1 KO-131	1
		132	1
		121	1
		122	1
		123	1
		101	1
		91	1
		71	1
		41	1
		21	1
		22	1
		92	1
		32 TDC 1	1
		TRC-1 100	1
		100	1
TOP EN			l
ф	13P	(B13P-SHF-1)	2
۲	12	(B12P-SHF-1)	3
	9	(B9B-SHF-1)	2
	3	(B3P-SHF-1)	1 1
	2P	(B2P-SHF-1)	2
BOTTO	M ENT	RY	
ſŪ	10P	(BE10P-SHF-1)] 1
1.7	9	(BE9P-SHF-1)	1
	7	(BE7P-SHF-1)	. 1
	4	(BE4P-SHF-1)	1
	3	(BE3P-SHF-1)	1
PRINTE	D CIRC	CUIT BOARD	
		1244)	1
		1245)	1
	(KLN	1246)	1
BUSHIN	G		
	SR-6\	V-1	3
POWER	TRAN	SFORMER	ļ
	JA-22		1
	JB-22	1-12	1
BUSHIN	G		İ
	4K-4		3
	5P-4		3
			ļ
			- 1
			J
			l
			1
			1
			j
			1

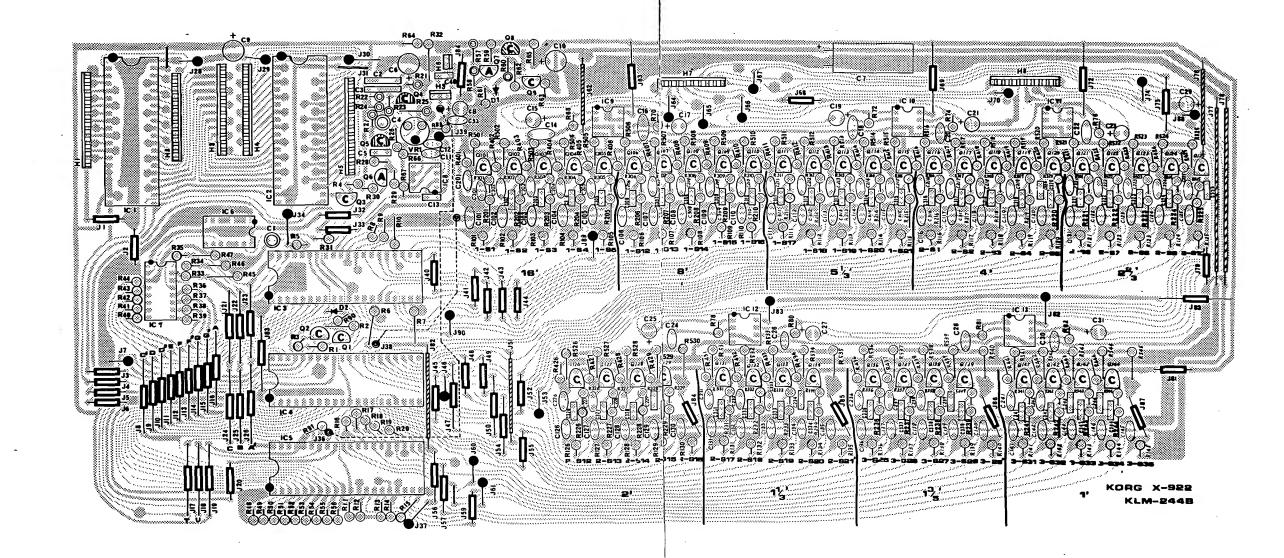
PARTS NAME	PANEL INSTRUCTI	ON STANDARD
POTENT	IOMETERS	
	VOLUME	EVC-BO5P18B14
	KEY CLICK	EVH-8MA803A14
	TUNE	EVH-LOAS20B14
	OVER DRIVE	EVH-LOAS20B16
	BASS	EVH-LOAS20B15
	TREBLE	EVH-LOAS20B15
	PERCUS DECAY	EVH-LOAS20A55
	PERCUS VOL	EVH-LOAS20A14
SLIDE V	VOLUME DRAWBAR x 9	S401XKA10KC
SELECT	SWITCH SELECT × 8	KHC11901 with LED
ROTARY	KNOB	
	Rotary knob (Large)	
	Rotary knob (Small)	for PS
DRAWBA	AR KNOB	
	Drawbar knob 5-1/3	(Ño.1
	Drawbar knob 2-2/3	
	Drawbar knob 1-3/5	4
	Drawbar knob 1-1/3	
	Drawbar knob 16'	.5
	Drawbar knob 8'	6
	Drawbar knob 4'	Ivory \ 7
	Drawbar knob 2'	8
	Drawbar knob 1'	(9
	Select knob (gray)	
	Select knob (Brown)	
PHONE .	JACK	
	RETURN	0929
	OTHERS x 4	0983
	/	
	•	
.4		
		,





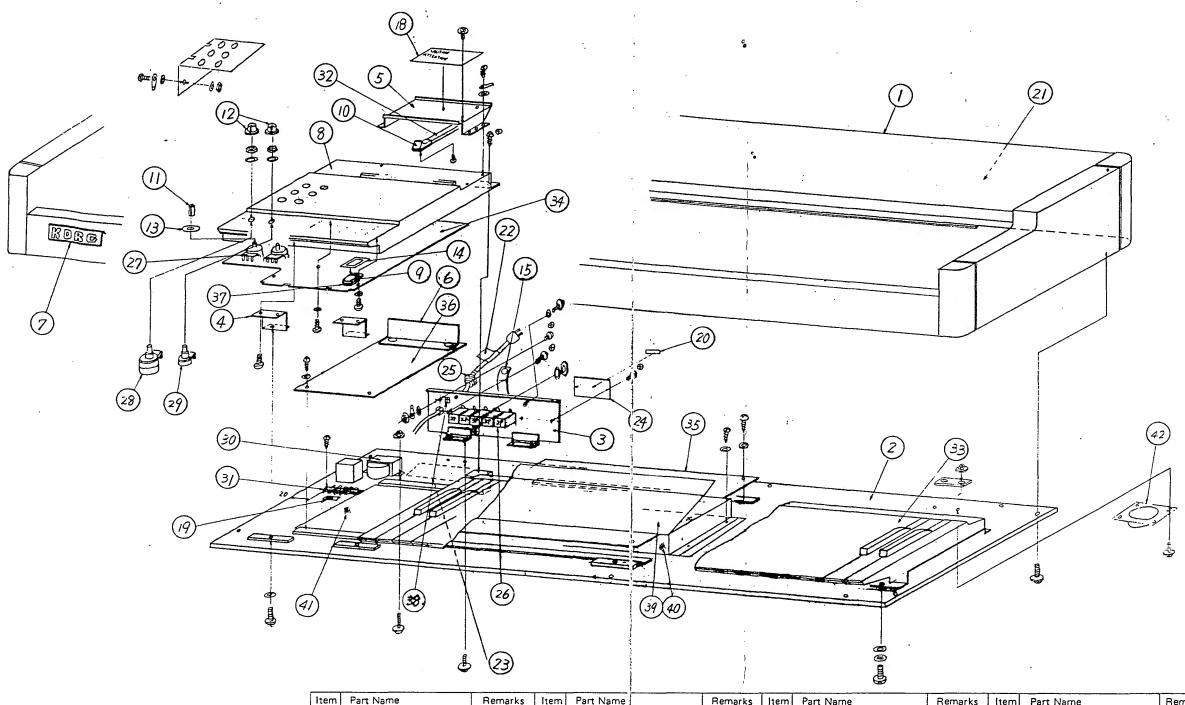
KORG KLM - 246C

5. PC BOARD



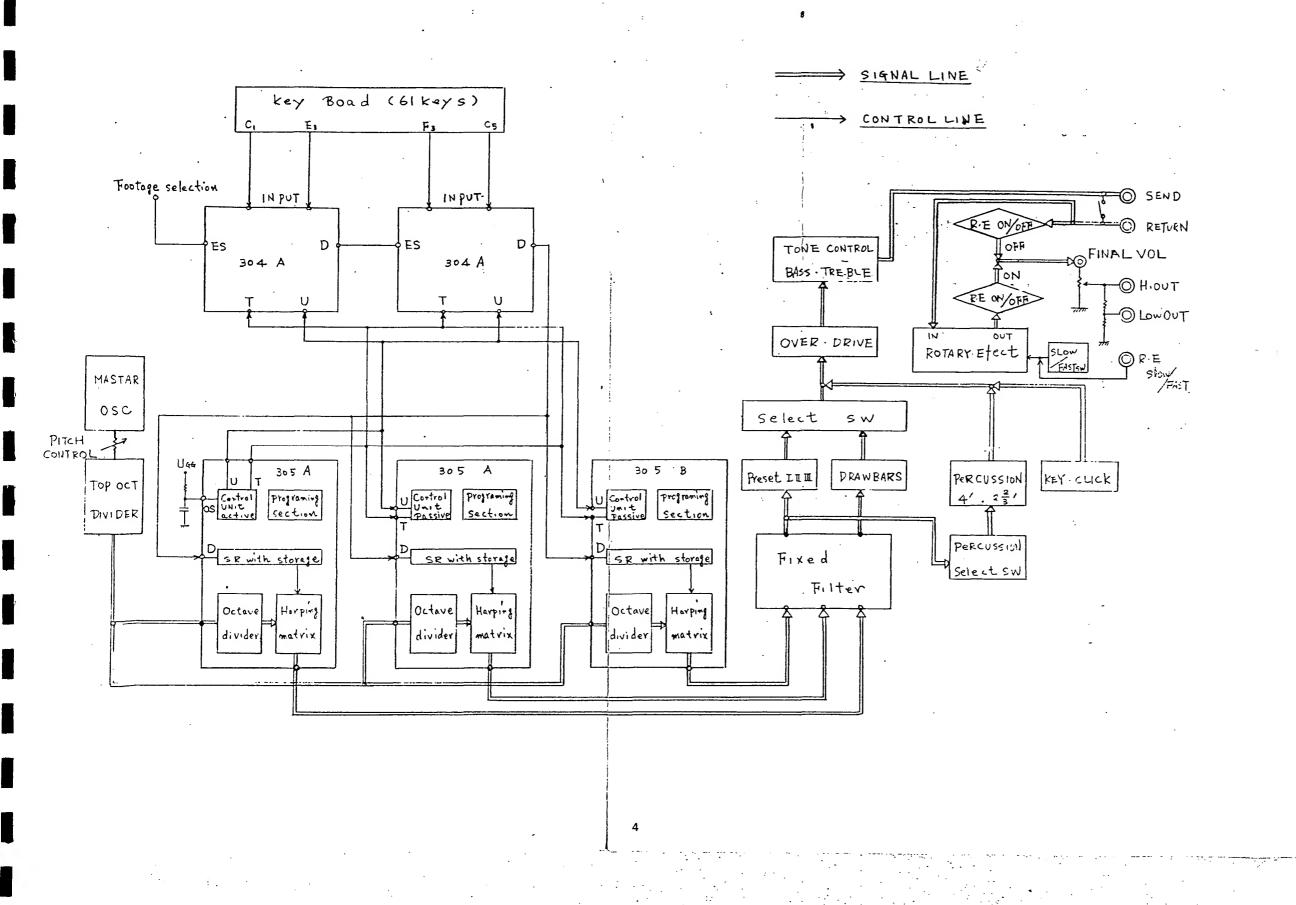
7

2. STRUCTURAL DIAGRAM

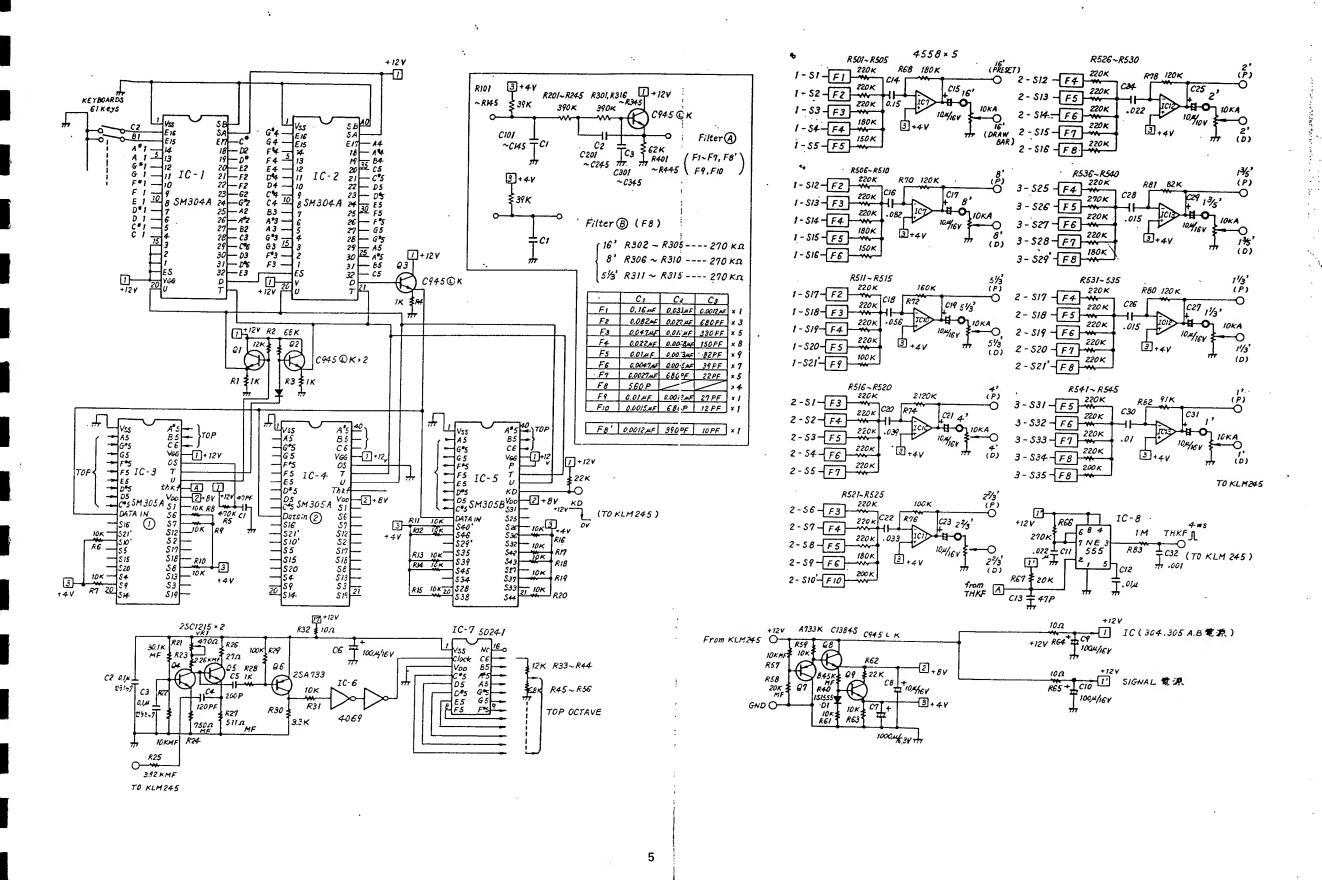


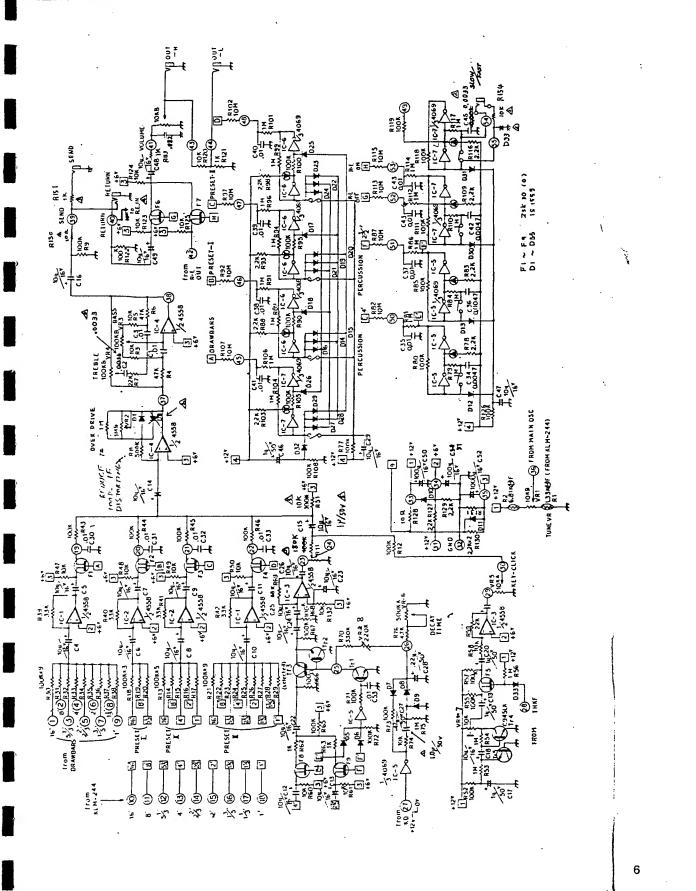
Item	Part Name	Remarks	Item	Part Name		Remarks	Item	Part Name	Remarks	Item	Part Name	Remarks
1.	Cabinet		11.	PS knob (sin	all)		23.	Service caution seal		33.	Keyboard	
2.	Bottom		12.	Rotary knc b)		24.	Model number plate		34.	Control circuit board	
3.	Rear panel		13.	Lever SW. in	ask		25.	Strain release bushing		35.	Main circuit board	
4.	Control panel mounting		14.	Selector SV	mask		26.	Phone jack		36.	R.E. Circuit board	
5.	Draw bar holder		15.	Cord stopp ar	r		27.	Rotary variable resistors		37.	Selector SW	
6.	Radiation board		18.	Fuse cautic n	seal		28.	Rotary variable resistors		38.	Earth (ground) seal	
7.	KORG Mark (Small)		19.	Fuse seal			29.	Rotary variable resistors		39.	Sealed cover	
8.	Control panel		20.	Serial numlice	er seal	1	30.	Power transformer		40.	Aluminum film	
9.	Selector SW knob		21.	KORG Mar k	seal		31.	Lug board		41.	Aluminum film	
10.	Draw bar knob		22.	Wiring caut ic	on (large)		32.	Draw bar		42.	Metal fitting of stand	

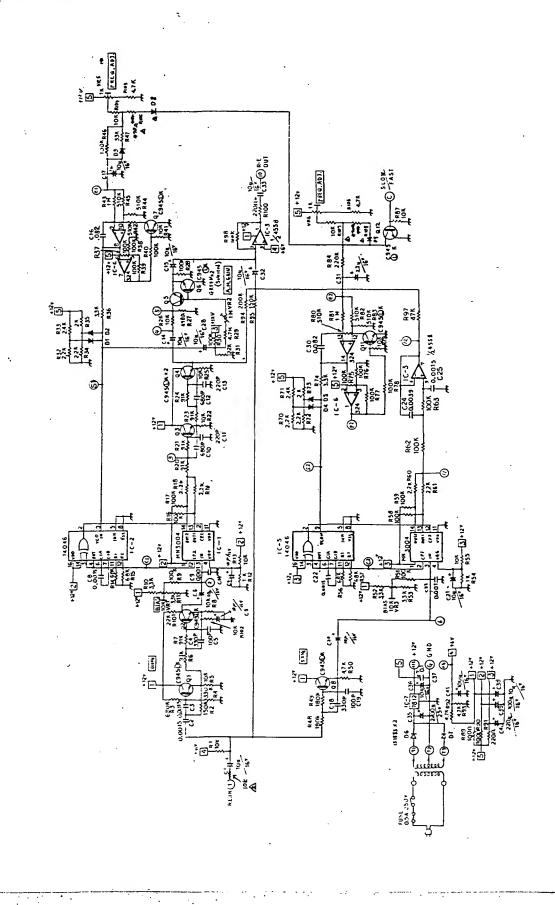
3. BLOCK DIAGRAM



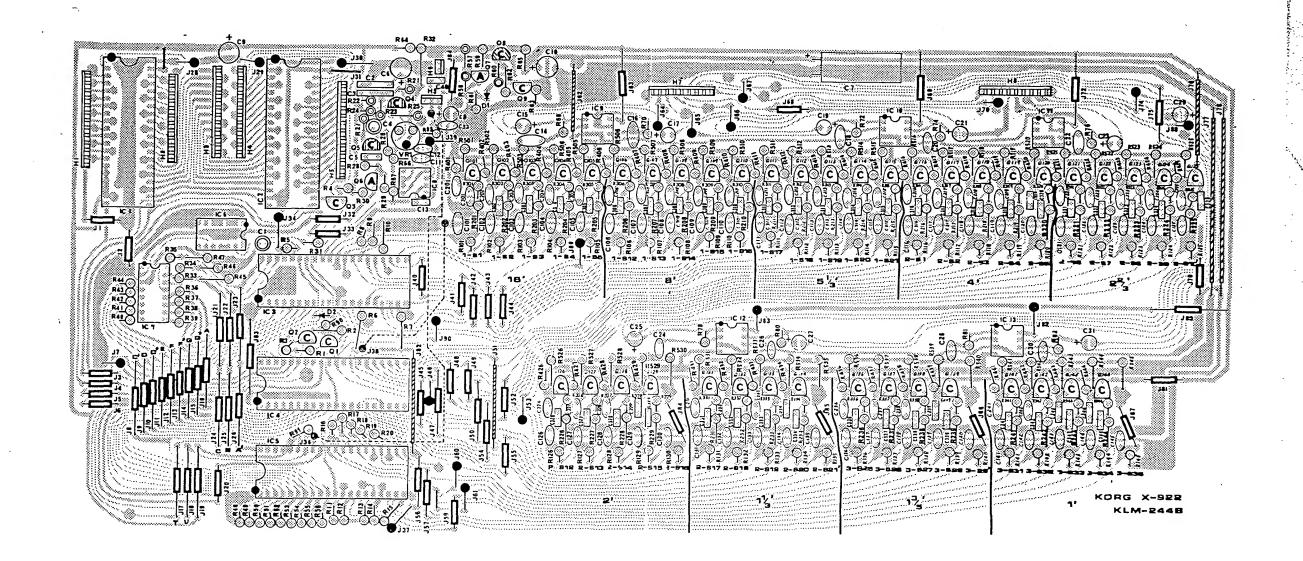
4. CIRCUIT DIAGRAM KLM-244

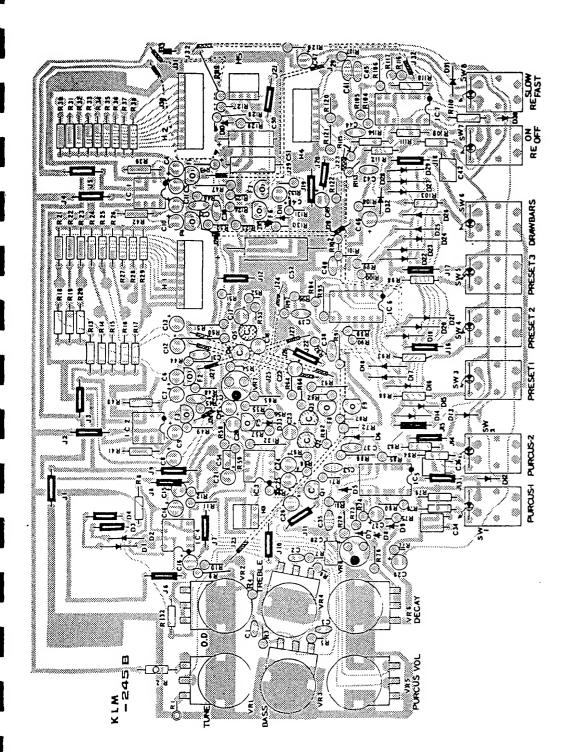


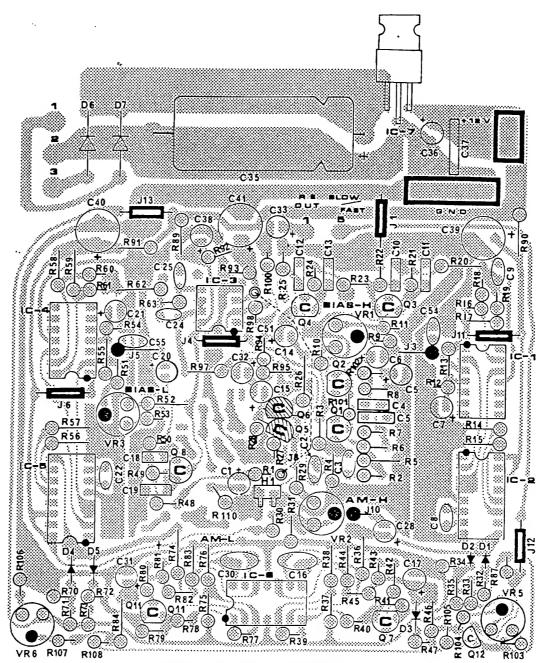




5. PC BOARD







KORG KLM - 246C

6. MAIN CIRCUIT EXPLANATIONS

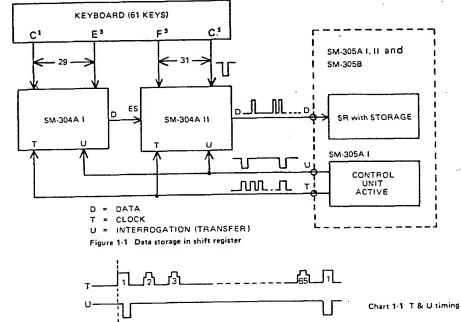
Because the tone circuit is of the programming type, it can be used in many different ways. However, here is only explained how the circuit is used in the CX-3.

1. Tone circuit

IC-SM304A is a data processing IC designed for electronic organ applications.

Data from the 61 keys on the keyboard is converted from a parallel control signal into a series

control signal. After passing through the P/S (parallel-to-series) converter, the data is stored as D in the SR with storage of SM-305A and SM-305B.

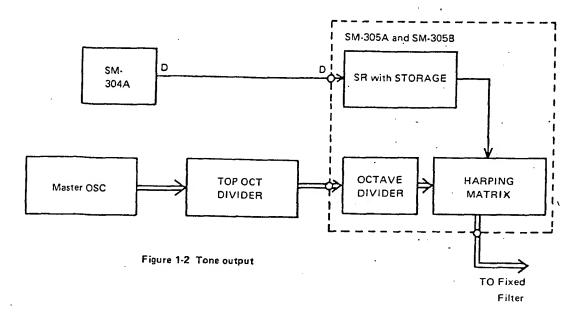


U = Simply speaking, the transfer pulse identifies the beginning of the series.

T = The clock pulse counts from 1 to 65 bits. 4 of those bits are for footage group programming and 61 bits are for keyboard programming. Refer to chart 1-2.

	Pr	ogramı	ming bi	ts	os	Summing-out puts for programming											
SM-	PB1	PB2	PB3	РВ4	US	S10) '	s	9	s	6	s	7	S	В	group	
305A	Н	Н	н	н	RCTH					V	סכ					3	
	н	н	н	н	L		2										
	Progra	mming	bits	,			Summing-outputs for programming							Summing-outputs for programming			Footage
SM- 305B	PB1	PB2	РВ3	РВ4	P	S40'	S46	S39	S45	S38	S36	S42	S43	S37	S44	group	
3056	н	н	н	н	н		<u>VDD</u> 2								4		
	ES	E1	E2	E3													
	p	Designation of programming hits for SM-304															

Chart 1-2 Programming



IC SM-305 includes shift register, octave divider, and harping matrix functions.

The data that had been transferred to the shift register is now transferred to the harping matrix.

There the 12-tone octave divider and sound is produced in accordance with the data. Refer to figure 1-2.

Harping Matrix

SM-305A produces 3 footage groups.

		т		
Footage Group-1	4'	2-2/3.	2′	1-1/3′
Footage Group-2	8′	5-1/3'	4'	2-2/3'
Footage Group-3	16'	10-2/3'	8,	5-1/3'

SM-305B produces 2 footage groups.

Footage Group-4	1-3/5′	1'	2/3′	1/2'
Footage Group-5	4/5'	1/3'	1/4'	1/8'

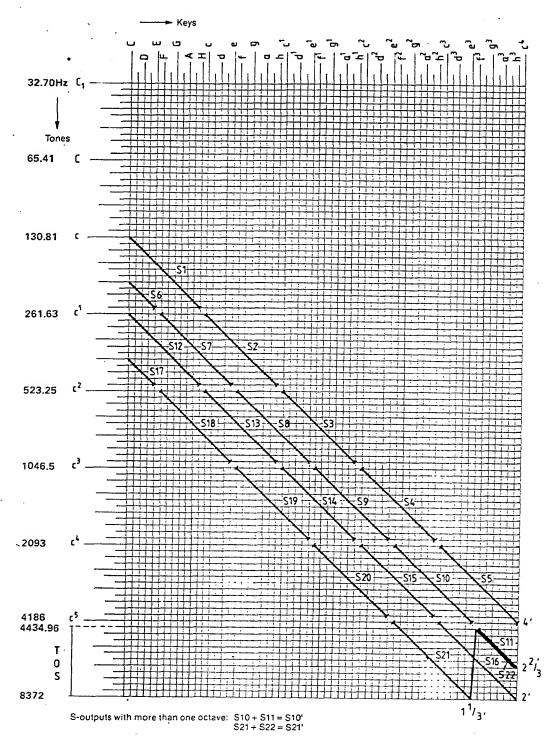
Footage groups used in the CX-3 are as listed below.

SM-3054-1	Footage group-3	(But without 10-2/3')
SM-3054-11	Footage group-1	
SM-3058	Footage group-4	(But without 2/3' or 1/2')

(Refer to the Harping matrix – footage group chart)

In other words, the top octave divider produces 12 frequencies — C# (4434.96Hz) D, D#...B, C (8372Hz) etc. For example, to get 4' C, which is 4 octaves lower, the 4186Hz is divided by 32 to obtain 130.81Hz (C). This note centered around VDD/2 is sent to tone out and from there to each of the fixed filters.

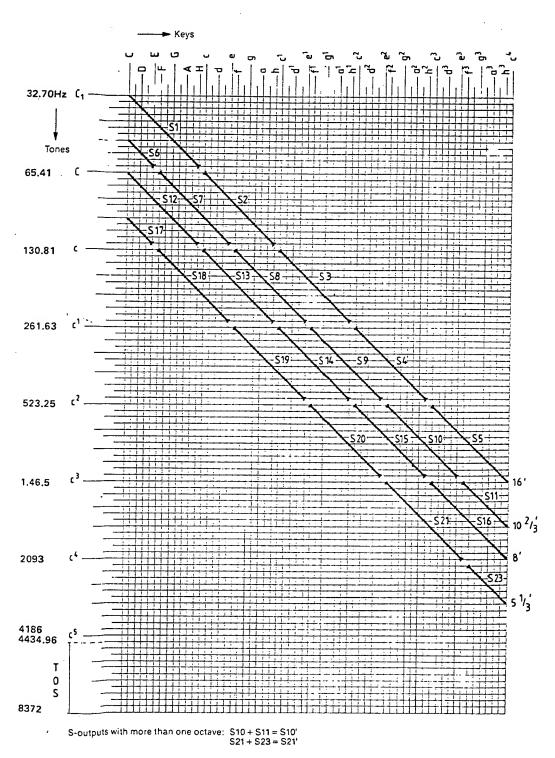
SM-305A-II Harping matrix for footage group 1



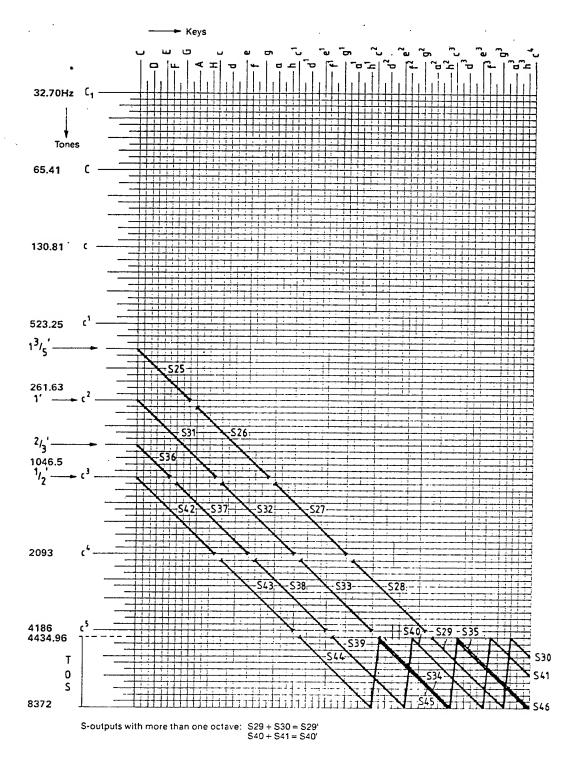
10

11

SA-305A-I Harping matrix for footage group 3



SM-305B Harping matrix for footage group 4



13

12

2. Filter circuitry

There are fixed filters for each tone; separate outputs are provided for presets and drawbars; the selector buttons determine which gate is operated to pass the signal on to the mixer.

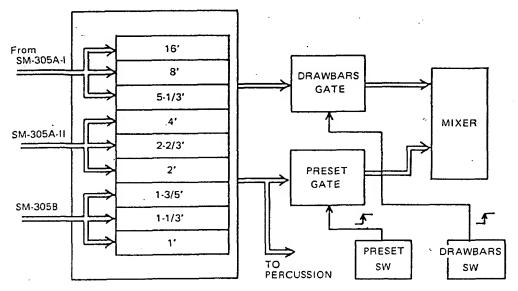
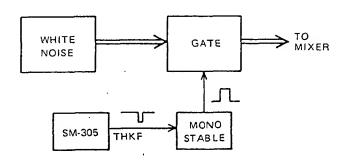


Figure 2-1 Filters

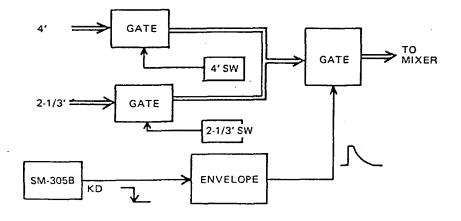
3. Key-Click circuit

White noise is used to produce the key-click effect. The SM-305A THKF (multiple trigger) controls the effect.



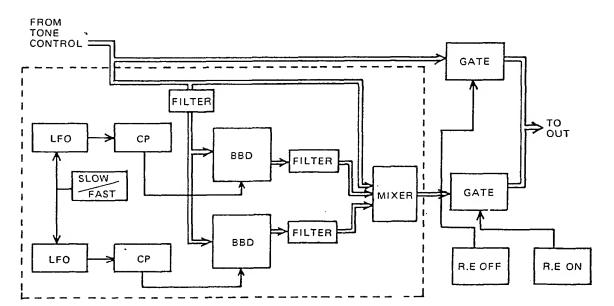
4. Percussion circuit

The percussion circuit uses 4' and 2-2/3' signals. The envelope signal which controls the effect is produced with the SM-305B KD (key-down) single trigger.



5. Rotary Effect circuit

Two BBD circuits are used to produce the rotary effect. The BBDs are IC-MN3004. Refer to the diagram



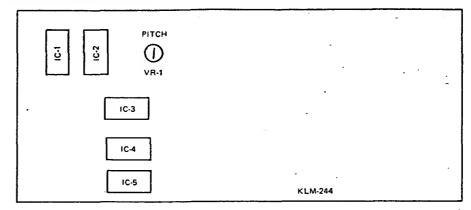
7. ADJUSTMENT PROCEDURE

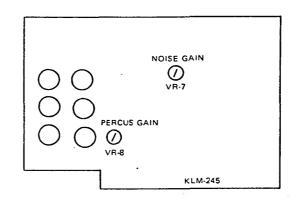
Caution: Very precise adjustments have been made at the factory, so be careful not to change any setting other than that which is out of order.

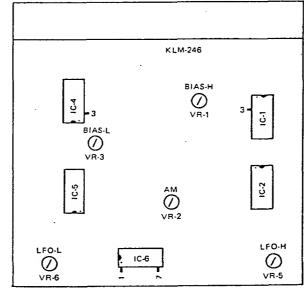
Circuit Board No.	SECTION	SETTINGS	ADJUSTMENT	ADJUST Vr. No.	Oscilloscope
KLM-244	РІТСН	TUNE - CENTER SELECTOR - DRAW- BARS DRAWBARS - 8' SIG OUT - WT10A WT-10A-S/M - METER	Play A and adjust to obtain a 0 cent reading.	VR-1	
	NOISE GAIN	SIGOUT(Hi) - OSCILLO.S SELECTOR - DRAW- BARS DRAWBARS - 0 KEYCLICK - MAX VOL - MAX	Adjust to get 0.5V ~0.7V key click sound when a key is played.	VR-7	0.5V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7
KLM-245	PERCUS GAIN	SIG OUT(Hi) - OSCILLO.S PERCUS VOL - MAX PERCUS DE- CAY - MAX PERCUSSION - 4' SELECTOR - DRAW- BARS DRAWBARS - 4'	Adjust so there is a 7:1~5:1 ratio be-	VR-8	7:1 5:1
	LFO (LOW)	ROTARY EFFE – FAST IC6-1 – f.counter	Adjust to obtain 145msec reading.	VR-6	
	LFO (HIGH)	IC6-7 — f.counter	Adjust to obtain 130msec reading.	VR-5	
KLM-246	BIAS (LOW)	IC4-3-Digital	Adjust to obtain 6.00V reading.	VR-3	
	BIAS (HIGH)	IC1-3-Digital	Adjust to obtain 6.00V reading.	VR-1	
	ам-н		*	VR-2	

^{*} The AM-H adjustment controls the high range volume fluctuation when the rotating speaker effect is turned on. Listen to the sound to confirm proper adjustment.

Trimmer positions (reference chart)







8. PARTS LIST (Refer to structural diagram for parts list.)

PARTS NAME	SPECIFICATIONS	Ω'ΤΥ	PARTS SPECIFICATIONS	QΊ
CARBON RES	STORS (Not Listed)		CERAMIC CAPACITORS	
			561 (560 pF)	4
SOLID RESIST	ORS		ECK-FIE104ZFZ (0.1 μF)	3
14W	10MrJ	8	ELECTROLYTIC CAPACITORS	
METAL FILM	RESISTORS		0.22μ / 50V	1
1/2 W	1.33 KμF	1	0.47	
	6.81	1	10 /16	24
	511	1	100	5
	750	1	1000 / 6.3V	1
	3.32	1	220 / 16	1
	3.92	1	1000 / 6.3	1
	8.45	1	100 / 16	2
	10	2	2200 / 25	1
	20	1	22 / 16	1
	30.1	1	1 /50 .	7
	2.32	0	10 / 16	22
	2.26	1	TRANSISTORS	
MYLAR CAPAC			2SC945 LK	55
50V	0.001µF k	3	2SC945	4
	0.0012	3	2SC1215T	2
	0.0015	13	2\$C644R	1
	0.0022		2SC13849 .	1
	0.0027	5	2SA733AK	2
	0.0033	11	FET	
	0.0039	1 1	2SK30	9
	0.0047	10	DIODES	
	0.0068	8	1\$1555	40
	0.0 1 0.01 2	27	1S1885	2
	0.012	5		
	0.033	13	IC Std 2044	
	0.047	2 5	SM-304A SM-305A	2
	0.068		SM-305B	2
	0.082	7	NE-555	1
	0.16	1 1	S-50241	
	0.056	1 1	MC-14069	1 4
(0.15	1 1	4458	10
. (0.015	2	MC-14046	2
(0.039	1 1	MN-3004	2
TYROL CAPAC	ITORS		μPC 324	1
47 pF (· · · · · · =	1	14312 (7812)	1
	(1%)	1	SEMI-FIXED RESISTORS	
			470ΩB H1051A	
ERAMIC CAPA			150	3
ECK-D	1H100 Dc (10 pF)	1 1	10KB	3
	120 K ₂ (12 pF) 220 (22 pF)	1 1	220	1
	220 (22 pF) 270 (27 pF)	5	1MB	1 1
	390 (39 pF)	7	100KB	
	820 (82 pF)	9	1KB ·	2
	101 (100 pF)	3	KEYBOARD	
	151 (150 pF)	8	ESK307V (61 kev)	,
	221 (220 pF)	3		1
	231 (330 pF)	7	FUSE	[]
	391 (390 pF)	i	250V 0.5A	1
	681 (680 pF)	11	LUG BOARD	
	47 (47 pF)	1 1	L-1205-6P	1 1

PARTS NAME	SPECIFICATIONS	ד׳ם
CONNECTO	RS	
cx	3-1 KO-131	
-	132) .
•	121	
	122 123	
	101	
**	91	
	71	1
	41	1
	· 21 22	
	92	
	32	1
	TRC-1	1
	100	1
TOP ENTRY		
1 1	(B13P-SHF-1)	2
十 12 9	(B12P-SHF-1)	3
3	(B9B-SHF-1) (B3P-SHF-1)	2
2P	(B2P-SHF-1)	2
BOTTOM EN	TRY	
10P		1
'' 9	(BE9P-SHF-1)	1
7	(BE7P-SHF-1)	. 1
4 3	(BE4P-SHF-1)	1
	(BE3P-SHF-1)	1
	RCUIT BOARD M244)	
	M245)	1
	M246)	1
BUSHING		
SR-6	5W-1	3
OWER TRAN	NSFORMER	
JA-2	21-12	1
JB-2	21-12	1
BUSHING		
4 K-4		3
5P-4		3
	•	}
		1
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PARTS NAME	PANEL INSTRUCTI	ON STANDARD
POTENT	VOLUME KEY CLICK TUNE OVER DRIVE BASS TREBLE PERCUS DECAY PERCUS VOL	EVH-LOAS20B15 EVH-LOAS20B15
SLIDE	VOLUME DRAWBAR × 9	S401XKA10KC
SELECT	SWITCH SELECT × 8	KHC11901 with LED
ROTARY	Y KNOB Rotary knob (Large) Rotary knob (Small)	- •
DRAWBA	AR KNOB Drawbar knob 5-1/3' Drawbar knob 2-2/3' Drawbar knob 1-3/5' Drawbar knob 16' Drawbar knob 8' Drawbar knob 4' Drawbar knob 2' Drawbar knob 1' Select knob (gray)	Brown \begin{cases} No.1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 9 & 9 & 9 & 9 & 9 & 9 & 9 & 9
PHONE J	= :	
	RETURN OTHERS x 4	0929 0983
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CX-3 Service